
2. Get SELDP
and have them
teams on project
3. Can NASA work in the 20% dev time?
4. Can SBIR-type projects be more pitch
NASA + company?
NASA
Graduation Day

1
00:00:07,040 --> 00:00:10,709
this week at nasa

2
00:00:15,669 --> 00:00:13,030
space shuttle atlantis remains on track

3
00:00:19,510 --> 00:00:15,679
for a july 8th launch the four-person

4
00:00:22,150 --> 00:00:19,520
crew of sts-135 commander chris ferguson

5
00:00:25,029 --> 00:00:22,160
pilot doug hurley mission specialists

6
00:00:27,189 --> 00:00:25,039
rex walheim and sandy magnus continues

7
00:00:31,029 --> 00:00:27,199
preparations for the final flight of

8
00:00:33,030 --> 00:00:31,039
nasa's space shuttle program

9
00:00:35,270 --> 00:00:33,040
to ready for the work they'll do on the

10
00:00:37,350 --> 00:00:35,280
international space station the crew

11
00:00:39,350 --> 00:00:37,360
trained in the neutral buoyancy lab at

12
00:00:41,110 --> 00:00:39,360
johnson space center and the kennedy

13
00:00:42,229 --> 00:00:41,120

space center's orbiter processing

14
00:00:43,990 --> 00:00:42,239
facility

15
00:00:46,150 --> 00:00:44,000
atlantis will carry the rafaello

16
00:00:48,630 --> 00:00:46,160
multi-purpose logistics module with

17
00:00:51,590 --> 00:00:48,640
about 17 000 pounds of supplies and

18
00:00:54,069 --> 00:00:51,600
spare parts to the iss largely it's a

19
00:00:56,630 --> 00:00:54,079
cargo mission it's an effort to posture

20
00:00:58,229 --> 00:00:56,640
the space station for about a year

21
00:01:00,389 --> 00:00:58,239
put it in a good position until we can

22
00:01:02,549 --> 00:01:00,399
get our commercial

23
00:01:04,950 --> 00:01:02,559
cargo resupply system up and running

24
00:01:08,149 --> 00:01:04,960
atlantis sits at the ready on launch pad

25
00:01:12,149 --> 00:01:08,159
39a after his external tank passed a

26
00:01:14,070 --> 00:01:12,159
pre-launch liquid propellant test

27
00:01:16,550 --> 00:01:14,080
this is the first time we really are

28
00:01:18,710 --> 00:01:16,560
pinpointing when these black holes were

29
00:01:20,710 --> 00:01:18,720
really forming and growing nasa's

30
00:01:23,190 --> 00:01:20,720
science mission directorate conducted

31
00:01:25,429 --> 00:01:23,200
two news conferences to update the media

32
00:01:27,830 --> 00:01:25,439
on progress and developments in the

33
00:01:29,030 --> 00:01:27,840
chandra x-ray observatory and messenger

34
00:01:31,270 --> 00:01:29,040
missions

35
00:01:33,350 --> 00:01:31,280
the first of the two provided a look at

36
00:01:35,749 --> 00:01:33,360
new pictures and data collected by

37
00:01:38,390 --> 00:01:35,759
chandra it took the research that was

38
00:01:40,469 --> 00:01:38,400

done over the last decade with chandra

39
00:01:42,870 --> 00:01:40,479
for people to begin to realize that you

40
00:01:44,950 --> 00:01:42,880
could by observing very deeply in the

41
00:01:47,030 --> 00:01:44,960
universe that you could piece together

42
00:01:49,270 --> 00:01:47,040
some of the very early history of black

43
00:01:51,749 --> 00:01:49,280
hole growth black holes are the last

44
00:01:54,230 --> 00:01:51,759
evolutionary stage in the lifetimes of

45
00:01:57,190 --> 00:01:54,240
stars there were once at least 10 to 15

46
00:01:59,910 --> 00:01:57,200
times as massive as our own sun

47
00:02:02,389 --> 00:01:59,920
these cold remnants are extremely dense

48
00:02:05,109 --> 00:02:02,399
exerting a gravitational pull so strong

49
00:02:08,229 --> 00:02:05,119
that nothing not even light can escape

50
00:02:09,669 --> 00:02:08,239
their grasp

51
00:02:11,510 --> 00:02:09,679
in many cases a lot of the original

52
00:02:13,990 --> 00:02:11,520
ideas about mercury are just plain wrong

53
00:02:16,949 --> 00:02:14,000
and so we're finding some surprises also

54
00:02:18,869 --> 00:02:16,959
revealed new images and science findings

55
00:02:20,630 --> 00:02:18,879
from the first spacecraft to orbit

56
00:02:23,110 --> 00:02:20,640
mercury we've gotten some very good

57
00:02:24,550 --> 00:02:23,120
fluorescent x-ray data from the surface

58
00:02:27,270 --> 00:02:24,560
so we're getting good measurements right

59
00:02:29,670 --> 00:02:27,280
now of the average composition of key

60
00:02:31,830 --> 00:02:29,680
elements like magnesium aluminum silicon

61
00:02:34,470 --> 00:02:31,840
sulfur calcium titanium and iron with

62
00:02:36,550 --> 00:02:34,480
this instrument nasa's mercury surface

63
00:02:38,710 --> 00:02:36,560

space environment geochemistry and

64
00:02:40,790 --> 00:02:38,720
ranging or messenger spacecraft

65
00:02:42,710 --> 00:02:40,800
completed more than a dozen laps through

66
00:02:44,869 --> 00:02:42,720
the inner solar system during the six

67
00:02:48,070 --> 00:02:44,879
years prior to achieving the historic

68
00:02:51,110 --> 00:02:48,080
orbit insertion on march 17th mercury

69
00:02:54,630 --> 00:02:51,120
really is a world in and of its own

70
00:02:57,190 --> 00:02:54,640
and we're finding that um just like the

71
00:02:59,190 --> 00:02:57,200
earth it's got its own personality

72
00:03:01,830 --> 00:02:59,200
uh mercury is one of the terrestrial

73
00:03:04,229 --> 00:03:01,840
planets and therefore provides some

74
00:03:06,149 --> 00:03:04,239
context for what was going on in the

75
00:03:08,229 --> 00:03:06,159
inner part of the solar system back when

76
00:03:10,790 --> 00:03:08,239
that the planets were condensing from

77
00:03:13,509 --> 00:03:10,800
the solar nebula messenger will image in

78
00:03:15,830 --> 00:03:13,519
stereo nearly the entire surface of

79
00:03:20,229 --> 00:03:15,840
mercury to determine the planet's global

80
00:03:25,509 --> 00:03:23,190
this video of the giant asteroid vesta

81
00:03:27,750 --> 00:03:25,519
was created by scientists working with

82
00:03:30,789 --> 00:03:27,760
nasa's dawn spacecraft highlighting

83
00:03:33,190 --> 00:03:30,799
vesta's jacket irregular shape the video

84
00:03:35,589 --> 00:03:33,200
loops 20 images dawn captured for

85
00:03:37,670 --> 00:03:35,599
navigation purposes as it approached

86
00:03:39,350 --> 00:03:37,680
this unexplored world in the main

87
00:03:41,750 --> 00:03:39,360
asteroid belt

88
00:03:43,350 --> 00:03:41,760

a dark feature near vesta's equator

89
00:03:45,750 --> 00:03:43,360
moves from left to right with the

90
00:03:47,830 --> 00:03:45,760
asteroid's rotation hinting at the

91
00:03:49,589 --> 00:03:47,840
enormous crater known to exist at

92
00:03:51,589 --> 00:03:49,599
vesta's south pole

93
00:03:58,470 --> 00:03:51,599
dawn is scheduled to begin orbiting the

94
00:04:03,190 --> 00:04:00,789
graduates of nasa's systems engineering

95
00:04:05,350 --> 00:04:03,200
leadership development program received

96
00:04:06,830 --> 00:04:05,360
their diplomas at a ceremony held at

97
00:04:09,910 --> 00:04:06,840
headquarters

98
00:04:11,910 --> 00:04:09,920
s-e-l-d-p accelerates and develops the

99
00:04:14,149 --> 00:04:11,920
leadership potential of mid-level

100
00:04:16,390 --> 00:04:14,159
systems engineers to help them better

101
00:04:18,949 --> 00:04:16,400
deal with difficult and multifaceted

102
00:04:21,270 --> 00:04:18,959
technical problems and intricate social

103
00:04:22,710 --> 00:04:21,280
systems the process of their learning

104
00:04:25,430 --> 00:04:22,720
experience over the year learning a lot

105
00:04:27,510 --> 00:04:25,440
about themselves and and how they can do

106
00:04:29,350 --> 00:04:27,520
a better job of leading teams and

107
00:04:31,830 --> 00:04:29,360
practicing both the art and the science

108
00:04:32,710 --> 00:04:31,840
of system engineering there was 20 of us

109
00:04:34,469 --> 00:04:32,720
in

110
00:04:35,510 --> 00:04:34,479
scldp

111
00:04:36,950 --> 00:04:35,520
and

112
00:04:38,790 --> 00:04:36,960
each of us came from different centers

113
00:04:39,510 --> 00:04:38,800

so there was a lot of mingling of ideas

114
00:04:40,790 --> 00:04:39,520
and

115
00:04:43,030 --> 00:04:40,800
cultures

116
00:04:46,070 --> 00:04:43,040
and i think we all grew from this the

117
00:04:48,550 --> 00:04:46,080
year-long program was initiated in 2008

118
00:04:50,870 --> 00:04:48,560
to ensure that nasa's workforce would be

119
00:04:53,749 --> 00:04:50,880
ready and able to lead the world in

120
00:04:56,390 --> 00:04:53,759
space exploration scientific discovery

121
00:04:58,870 --> 00:04:56,400
technology development and managerial

122
00:05:00,710 --> 00:04:58,880
excellence so we're quite excited about

123
00:05:02,150 --> 00:05:00,720
what these folks have done and

124
00:05:03,830 --> 00:05:02,160
very very excited about what they're

125
00:05:09,990 --> 00:05:03,840
going to do in their in their future at

126
00:05:15,110 --> 00:05:12,790
in an ear deafening twist of irony this

127
00:05:18,150 --> 00:05:15,120
supersonic aircraft is producing amped

128
00:05:22,790 --> 00:05:18,160
up super loud sonic booms to help make

129
00:05:27,670 --> 00:05:24,629
nasa researchers at the dryden flight

130
00:05:30,070 --> 00:05:27,680
research center laid out a two mile long

131
00:05:33,830 --> 00:05:30,080
string of microphones to record the

132
00:05:36,390 --> 00:05:33,840
thunder of an accelerating f a 18 jet

133
00:05:39,110 --> 00:05:36,400
for the super boom caustic analysis and

134
00:05:41,590 --> 00:05:39,120
measurement program or scamp

135
00:05:43,350 --> 00:05:41,600
scamp measured these focused booms to

136
00:05:45,909 --> 00:05:43,360
understand how to minimize their

137
00:05:48,550 --> 00:05:45,919
startling impact and ensure that

138
00:05:51,029 --> 00:05:48,560

tomorrow's supersonic jets will be quiet

139
00:05:58,150 --> 00:05:51,039
in all phases of flight over land

140
00:06:02,309 --> 00:06:00,230
glenn research center employees and

141
00:06:04,390 --> 00:06:02,319
visitors will soon be checking in

142
00:06:06,870 --> 00:06:04,400
through a new main entrance

143
00:06:09,749 --> 00:06:06,880
the new single single-story 2500 square

144
00:06:11,990 --> 00:06:09,759
foot structure main gate and its roadway

145
00:06:14,710 --> 00:06:12,000
called the nasa parkway will mark a

146
00:06:17,430 --> 00:06:14,720
milestone in a 20-year master plan to

147
00:06:19,830 --> 00:06:17,440
improve facilities and infrastructure at

148
00:06:22,870 --> 00:06:19,840
glenn's lewis field in cleveland and the

149
00:06:24,710 --> 00:06:22,880
plum brook station in sandusky ohio the

150
00:06:26,790 --> 00:06:24,720
event was celebrated with a special

151
00:06:30,150 --> 00:06:26,800
ribbon cutting ceremony it really

152
00:06:32,150 --> 00:06:30,160
isolates the processing of our visitors

153
00:06:33,670 --> 00:06:32,160
keeps them outside the security barrier

154
00:06:35,749 --> 00:06:33,680
helps our security guards with the

155
00:06:38,390 --> 00:06:35,759
traffic flow in and out of the center

156
00:06:40,790 --> 00:06:38,400
the new building will be gold certified

157
00:06:43,110 --> 00:06:40,800
as a high performance eco-friendly

158
00:06:45,110 --> 00:06:43,120
building by the u.s green building

159
00:06:50,629 --> 00:06:45,120
council leadership in energy and

160
00:06:54,710 --> 00:06:52,150
the ames research center's

161
00:06:57,830 --> 00:06:54,720
sustainability base has been named the

162
00:06:59,909 --> 00:06:57,840
government's green building of the year

163
00:07:02,150 --> 00:06:59,919

due to be completed later this summer

164
00:07:04,950 --> 00:07:02,160
the structure incorporates technology

165
00:07:06,790 --> 00:07:04,960
used by astronauts in space and will be

166
00:07:09,670 --> 00:07:06,800
one of only a few buildings in

167
00:07:11,510 --> 00:07:09,680
california generating more electricity

168
00:07:14,230 --> 00:07:11,520
than it consumes

169
00:07:16,150 --> 00:07:14,240
construction for sustainability base has

170
00:07:19,029 --> 00:07:16,160
been more expensive than a standard

171
00:07:21,589 --> 00:07:19,039
government facility but nasa expects its

172
00:07:26,629 --> 00:07:21,599
lower operating costs will offset the

173
00:07:32,390 --> 00:07:29,909
nasa 360 the tv program that highlights

174
00:07:35,029 --> 00:07:32,400
how nasa technology contributes to our

175
00:07:37,510 --> 00:07:35,039
daily lives was nominated for a national

176
00:07:39,589 --> 00:07:37,520
daytime emmy award for single camera

177
00:07:42,550 --> 00:07:39,599
television editor today nasa is in the

178
00:07:44,629 --> 00:07:42,560
process of testing nasa 360 is based at

179
00:07:46,629 --> 00:07:44,639
the langley research center and is

180
00:07:48,629 --> 00:07:46,639
produced for nasa by the national

181
00:07:51,350 --> 00:07:48,639
institute of aerospace

182
00:07:53,430 --> 00:07:51,360
besides nasa tv the half hour program is

183
00:07:56,469 --> 00:07:53,440
seen on select airlines

184
00:07:59,670 --> 00:07:56,479
cable free to air broadcast channels and

185
00:08:03,110 --> 00:07:59,680
450 public broadcasting service stations

186
00:08:03,120 --> 00:08:07,110
and now centerpieces

187
00:08:15,189 --> 00:08:09,189
good morning everybody and welcome to

188
00:08:20,790 --> 00:08:17,909

in the world of social media a tweet-up

189
00:08:23,350 --> 00:08:20,800
is a meet-up twitter users bloggers and

190
00:08:28,309 --> 00:08:23,360
other social media fans my twitter

191
00:08:35,029 --> 00:08:31,350
a nasa tweet of draws a special crowd

192
00:08:37,509 --> 00:08:35,039
i'm a science geek it's i'm not ashamed

193
00:08:40,550 --> 00:08:37,519
these space tweets got to rub elbows

194
00:08:43,829 --> 00:08:40,560
with nasa's scientists and engineers the

195
00:08:46,310 --> 00:08:43,839
ion thruster pushes on the spacecraft as

196
00:08:47,269 --> 00:08:46,320
hard as this piece of paper pushes on my

197
00:08:49,990 --> 00:08:47,279
hand

198
00:08:52,230 --> 00:08:50,000
and met legends like john cassani who

199
00:08:54,470 --> 00:08:52,240
worked on the cassini voyager and

200
00:08:56,310 --> 00:08:54,480
galileo missions

201
00:08:58,470 --> 00:08:56,320
it's so rewarding to all of us to see

202
00:09:01,030 --> 00:08:58,480
people like you who are excited and

203
00:09:03,509 --> 00:09:01,040
turned on by the products of what that

204
00:09:06,310 --> 00:09:03,519
comes out of here and get that message

205
00:09:07,509 --> 00:09:06,320
out to the people who support us sitting

206
00:09:09,509 --> 00:09:07,519
there every once in a while you're going

207
00:09:11,030 --> 00:09:09,519
i can't believe that people do this that

208
00:09:13,430 --> 00:09:11,040
we send things

209
00:09:15,590 --> 00:09:13,440
millions of miles out into space it's

210
00:09:16,949 --> 00:09:15,600
just incredible to be able to get it

211
00:09:18,230 --> 00:09:16,959
from the people who are actually doing

212
00:09:20,470 --> 00:09:18,240
it

213
00:09:23,269 --> 00:09:20,480

this tweet up drew more than a hundred

214
00:09:25,829 --> 00:09:23,279
tweets from 20 states and two foreign

215
00:09:28,230 --> 00:09:25,839
countries it impresses me how much the

216
00:09:30,550 --> 00:09:28,240
entire nasa staff is dedicated to

217
00:09:32,790 --> 00:09:30,560
outreach especially the way that nasa

218
00:09:35,670 --> 00:09:32,800
works with kids and creating new geeks

219
00:09:38,070 --> 00:09:35,680
and new scientists they blog they

220
00:09:41,030 --> 00:09:38,080
tweeted telling their followers

221
00:09:46,630 --> 00:09:44,389
having their pictures taken in 3d

222
00:09:48,790 --> 00:09:46,640
seeing mission control home of the deep

223
00:09:51,670 --> 00:09:48,800
space network

224
00:09:54,550 --> 00:09:51,680
the mars rover test bed

225
00:09:55,750 --> 00:09:54,560
and curiosity it's actually kind of sad

226
00:09:56,710 --> 00:09:55,760
because every time i come here it's like

227
00:09:57,990 --> 00:09:56,720
one of the last times we're gonna be

228
00:09:59,269 --> 00:09:58,000
able to look at it and then it goes to

229
00:10:01,110 --> 00:09:59,279
florida for a few more months and then

230
00:10:02,710 --> 00:10:01,120
november the day after thanksgiving is

231
00:10:04,710 --> 00:10:02,720
our is the opening of our launch window

232
00:10:07,190 --> 00:10:04,720
how has this space geek been enjoying

233
00:10:10,790 --> 00:10:07,200
this i'm in heaven this is my idea of

234
00:10:13,350 --> 00:10:10,800
summer camp it was a space exploration

235
00:10:15,829 --> 00:10:13,360
love fest there's almost too much great

236
00:10:17,990 --> 00:10:15,839
stuff here to do in a single day all

237
00:10:24,949 --> 00:10:18,000
very very tired but very very happy

238
00:10:30,389 --> 00:10:27,829

it's called star trek the exhibition and

239
00:10:32,630 --> 00:10:30,399
it's attracting both die hard fans and

240
00:10:35,190 --> 00:10:32,640
novices to the kennedy space center's

241
00:10:37,269 --> 00:10:35,200
visitor complex like the klingon to

242
00:10:39,509 --> 00:10:37,279
intergalactic mayhem

243
00:10:42,069 --> 00:10:39,519
the interactive exhibit showcases

244
00:10:45,110 --> 00:10:42,079
authentic star trek artifacts from the

245
00:10:47,350 --> 00:10:45,120
past 45 years including one-of-a-kind

246
00:10:49,590 --> 00:10:47,360
costumes props and displays from the

247
00:10:51,829 --> 00:10:49,600
popular 60s television show and

248
00:10:54,069 --> 00:10:51,839
subsequent feature films

249
00:10:56,389 --> 00:10:54,079
visitors are treated to a recreation of

250
00:10:58,630 --> 00:10:56,399
the original series starship enterprise

251
00:11:01,509 --> 00:10:58,640
bridge with a chance to occupy the

252
00:11:02,630 --> 00:11:01,519
command chair of captain james tiberius

253
00:11:04,949 --> 00:11:02,640
kirk

254
00:11:07,190 --> 00:11:04,959
also on hand are replicas of the

255
00:11:08,790 --> 00:11:07,200
engineering and sickbays from star trek

256
00:11:11,269 --> 00:11:08,800
the next generation

257
00:11:13,829 --> 00:11:11,279
star trek the exhibition also features

258
00:11:16,550 --> 00:11:13,839
interactive kiosks and rare photo

259
00:11:19,829 --> 00:11:16,560
opportunities

260
00:11:22,389 --> 00:11:19,839
and that's this week at nasa for more on